



TECHNICAL DATA SHEET

TECHNYL SHAPE C 442 BK V

(Previously TECHNYL C 442 BLACK V)

TECHNYL SHAPE C 442 BK V is an unreinforced polyamide 6, impact modified, high viscosity, for extrusion. This grade offers high flexibility and very high impact resistance even at low temperature.

General

Feature	High viscosity	Impact resistant
Polymer type	PA6 (Polyamide 6)	
Processing technology	Extrusion	
Certification	RoHS	EC 1907/2006 (REACH)
Applications	Automotive Applications Industrial Applications	Consumer good application
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation PA6

Physical properties				
Density		ISO 1183	g/cm³	1.07
Water absorption	24 hr, 23°C	ISO 62	%	1.2
Molding shrinkage, parallel		ISO 294-4, 2577	%	2
Molding shrinkage, normal		ISO 294-4, 2577	%	1.6

Mechanical properties dam / cond.* Tensile modulus 1 mm/min ISO 527-1/-2 MPa 650 / 325 Stress at break ISO 527-1/-2 MPa 40 / 20 Strain at break ISO 527-1/-2 % 300 / 300

 Stress at break
 ISO 527-1/-2
 MPa
 40 / 20

 Strain at break
 ISO 527-1/-2
 %
 300 / 300

 Flexural modulus, ISO 178
 2 mm/min
 ISO 178
 MPa
 650 / 325

 Flexural strength, ISO 178
 2 mm/min
 ISO 178
 MPa
 25 / 12

 Izod notched impact strength, +23°C
 +23°C
 ISO 180/1A
 kJ/m²
 85 /





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	Condition			
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	222
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	50
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+014

^{*:} conditioned according to ISO 1110

Processing conditions

Disclaimer

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